PATENT

## IN THE CLAIMS:

1. (currently amended) A chemical compound of the general formula

$$R_1-R_2-Si-(X_1)_3$$
,

wherein

 $X_1$  is a leaving group,

 $R_2$  is a cycloalkyl having from 3 to 16 carbon atoms, an aryl having from 5 to 18 carbon atoms or a polycyclic alkyl group having from 7 to 16 carbon atoms,

and

 $R_1$  is a substituent of  $R_2$  selected from alkyl groups having from 1 to 4 carbon atoms, alkenyl groups having from 2 to 5 carbon atoms, alkynyl groups having from 2 to 5 carbon atoms, and aromatic groups having 5 or 6 carbon atoms, each of said groups being optionally substituted, and Cl and  $F_{\underline{\underline{N}}}$  with the proviso that the compound is not 4-fluorobenzyl trichlorosilane.

2 - 9. (canceled)

PATENT

10. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain cross-linking groups and  $-R_1$ -  $R_2$  bound to from 5 % to 50 % of the silicon atoms in the Si-O backbone, wherein  $R_2$  is an aromatic group having 6 carbon atoms and  $R_1$  is a substituent at position 4 of  $R_2$ , or  $R_1$ - $R_2$  is selected from the group consisting of pentafluorophenylmethyl, 4-trifluoromethyltetrafluorophenylmethyl.

### 11 - 28. (canceled)

29. (currently amended) A poly(organo siloxane) compound comprising a repeating Si-O backbone, -R1-R2 bound to from 25% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 6 carbon atoms and R1 is a substituent at position 4 of R2, or R1-R2 is selected from the group consisting of pentafluorophenylmethyl, 4-trifluoromethyltetrafluorophenylmethyl and pentafluorophenylethyl, and R3 is bound to from 5% to 50% of the silicon atoms, wherein R3 is an alkenyl group having from 2 to 5 carbon atoms, acrylic group or epoxy group.

3

30 - 40. (canceled)

PATENT

PATENT APPLN. NO. 10/552,737 RESPONSE TO RESTRICTION REQUIREMENT AND ELECTION OF SPECIES REQUIREMENT

41. (original) An integrated circuit having a layer with areas of an electrically conductive first material and an electrically insulating second material, wherein the second material is a poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 6 carbon atoms and R1 is a substituent at position 4 of R2.

### 42 - 56. (canceled)

- 57. (original) A method of making a chemical compound of the formula  $R_1$ - $R_2$ -Si- $(X_2)_3$ , wherein  $X_2$  is a halogen,  $R_2$  is an aromatic group having 5 to 18 carbon atoms, a cycloalkyl having from 3 to 16 carbon atoms, or a polycyclic alkyl group having from 7 to 16 carbon atoms, and  $R_1$  is a substituent, in particular at position 4 of  $R_2$ ,  $R_1$  being selected from the group consisting of alkyl groups having from 1 to 4 carbon atoms, alkenyl groups having from 2 to 5 carbon atoms, and OH groups, comprising:
  - reacting a compound of the formula  $R_1-R_2-Br$ , wherein  $R_1$  and  $R_2$  have the same meaning as above, with Mg and with a compound of the formula  $Si-(OR_3)_4$ , wherein  $R_3$  is an

4

PATENT

alkoxy group having from 1 to 3 carbon atoms, to form a compound of the formula  $R_1-R_2-Si-(OR_3)_3$ , wherein  $R_1$ ,  $R_2$  and  $R_3$  have the same meaning as above;

- reacting the thus obtained compound of the formula  $R_1$ - $R_2$ -Si- $(OR_3)_3$  with a halogenating agent capable of replacing, preferably each,  $R_3$  with a halogen substantially without affecting the rest of the compound of formula  $R_1$ - $R_2$ -Si- $(OR_3)_3$  to produce a compound of the formula  $R_1$ - $R_2$ - $SiX_2$ , wherein  $R_1$ ,  $R_2$  and  $X_2$  have the same meaning as above, and recovering the thus obtained compound.
- 58. (canceled)
- 59. (original) A chemical compound of the formula R1-R2-Si-(X1)3, wherein X1 is a halogen, acyloxy, alkoxy or OH group, R2 is an organic polycyclic or bridged ring structure with Si bound to carbon position 1, and R1 is a substituent at position 3 or higher of R2 selected from an alkyl group having from 1 or more carbons atoms, an alkenyl, an alkynyl, an acrylate, an aryl, an alcohol, OH, H, D, Cl or F.

60 - 67. (canceled)

5

PATENT

68. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is polycyclic or bridged ring strcture and R1 is a substituent at position 4 of R2 selected from an alkyl chain having from 1 to 4 carbons, H, D, F or OH.

69 - 84. (canceled)

85. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, -R1-R2 bound to from 25% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is a polycyclic or bridged ring structure and R1 is a substituent at position 4 of R2 selected from H, D, F, OH, an alkyl group having from 1 to 4 carbon atoms, and an alkenyl group having from 2 to 5 carbon atoms, and further comprising R3 bound to from 5% to 50% of the silicon atoms, wherein R3 is an alkenyl group having from 2 to 5 carbon atoms, acrylic group, aryl group or epoxy group.

86 - 98. (canceled)

PATENT

99. (original) An integrated circuit having a layer with areas of an electrically conductive first material and an electrically insulating second material, wherein the second material is a poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is a polycyclic or bridged ring structure and R1 is a substituent at position 4 of R2 selected from H, D, F, OH, an alkyl group having from 1 to 4 carbon atoms, and an alkenyl group having from 2 to 5 carbon atoms.

100 - 107. (canceled)

108. (original) A chemical compound of the formula R1-R2-Si-(X1)3, wherein X1 is a halogen, acyloxy, alkoxy or OH group, R2 is an aromatic group having 8 carbon atoms and R1 is a substituent at position 5 of R2 selected from an alkyl group having from 1 to 4 carbon atoms, an alkenyl group having from 2 to 5 carbon atoms, an alkynyl group having from 2 to 5 carbon atoms, C1 or F.

109 - 112. (canceled)

PATENT

113. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 8 carbon atoms and R1 is a substituent at position 5 of R2.

# 114 - 121. (canceled)

122. (currently amended) A poly(organo siloxane) compound comprising a repeating Si-O backbone, -R1-R2 bound to from 25% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 8 carbon atoms and R1 is a substituent at position 5 of R2 (again this could be drawn out for clarity), and R3 bound to from 5% to 50% of the silicon atoms, wherein R3 is an alkenyl group having from 2 to 5 carbon atoms, acrylic group or epoxy group.

## 123 - 126. (canceled)

127. (original) An integrated circuit having a layer with areas of an electrically conductive first material and an electrically insulating second material, wherein the second

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PATENT

material is a poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 8 carbon atoms and R1 is a substituent at position 5 of R2.

128 - 133. (canceled)

134. (original) A chemical compound of the formula R1-R2-Si-(X1)3, wherein X1 is a halogen, acyloxy, alkoxy or OH group, R2 is an aromatic group having 10 carbon atoms and R1 is a substituent at position 6 of R2 selected from an alkyl group having from 1 to 4 carbon atoms, an alkenyl group having from 2 to 5 carbon atoms, an alkynyl group having from 2 to 5 carbon atoms, C1 or F.

135 - 138. (canceled)

139. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -Rl-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 10 carbon atoms and R1 is a substituent at position 6 of R2.

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PATENT

140 - 147. (canceled)

148. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, -R1-R2 bound to from 25% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 10 carbon atoms and R1 is a substituent at position 6 of R2, and R3 bound to from 5% to 50% of the silicon atoms, wherein R3 is an alkenyl group having from 2 to 5 carbon atoms, acrylic group or epoxy group.

149 - 152. (canceled)

153. (original) An integrated circuit having a layer with areas of an electrically conductive first material and an electrically insulating second material, wherein the second material is a poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 10 carbon atoms and R1 is a substituent at position 6 of R2.

154 - 159. (canceled)

10

PATENT

160. (original) A method for making a chemical compound of the formula R1-R2-Si-(X1)3, wherein X1 is a halogen or alkoxy group, R2 is an aromatic group having 10 carbon atoms and R1 is a substituent at position 6 of R2, R1 being selected from an alkyl group having from 1 to 4 carbon atoms, an alkenyl group having from 2 to 5 carbon atoms, or OH, comprising:

reacting R1-R2-Br with Mg and Si-(OR3)4 to form R1-R2-Si-(OR3)3 + BrMgOR, where R1 is selected from an alkyl group having from 1 to 4 carbon atoms, an alkenyl having from 2 to 5 carbon atoms, R2 is an aromatic or non-aromatic ring structure having from 5 to 7 carbon atoms, and R3 is an alkoxy group having from 1 to 3 carbon atoms;

reacting R1-R2-Si-(OR3)3 with 3 SO2Cl2 in the presence of C5H5N-HCl to yield R1-R2-SiCl3 + 3 SO2 + 3EtCl.

161 - 163. (canceled)

- 164. (original) A thin film comprising a composition obtained by hydrolyzing
  - a monomeric silicon compound having at least one
     hydrocarbyl radical, containing an unsaturated carbon-to-

PATENT

carbon bond, and at least one hydrolyzable group attached to the silicon atom of the compound with

- another monomeric silicon compound having at least one aryl group and at least one hydrolyzable group attached to the silicon atom of the compound

to form a siloxane material.

165 - 166. (canceled)

167. (new) A chemical compound selected from the group consisting of:

3,5,7-trifluoroadamantyl trichlorosilane,

3,5,7-trifluoromethyladamantyl trichlorosilane,

5-trifluoromethylcycloocta-1,3,7,7-tetraene trichlorosilane,

pentafluorophenylmethyl trichlorosilane,

4-trifluoromethyl-2,3,5,6-tetrafluorophenylmethyl trichlorosilane,

pentafluoronorbornyl trichlorosilane,

3-trifluoromethyl-4-(methyl)phenyl trichlorosilane,

pentafluorophenylethyl trichlorosilane,

norbornyl trichlorosilane,

3,4,5-trimethylphenyl trichlorosilane,

adamantyl trichlorosilane,

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PATENT

PATENT APPLN. NO. 10/552,737
RESPONSE TO RESTRICTION REQUIREMENT AND ELECTION OF SPECIES REQUIREMENT

adamantylphenyl trichlorosilane,

- 3,5-bis(trifluoromethyl)phenyl trichlorosilane, and
- 4-(trifluoromethyl)phenyl trichlorosilane.